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OM nucleic - nucleic search, using sw model

Run on: March 8, 2005, 05:37:07 ; Search time 474 Seconds
(without alignments)
9591.480 Million cell updates/sec

Title: US-09-939-537-32

Perfect score: 768

Sequence: 1 GCTACAGAGCCCAATCTT.....GGGCTCTGACGACGATCC 768

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- N_Geneseq_16Dec04:*
- 1: Geneseqn1980s:*
 - 2: Geneseqn1990s:*
 - 3: Geneseqn2000s:*
 - 4: Geneseqn2001as:*
 - 5: Geneseqn2001bs:*
 - 6: Geneseqn2002as:*
 - 7: Geneseqn2002bs:*
 - 8: Geneseqn2003as:*
 - 9: Geneseqn2003bs:*
 - 10: Geneseqn2003cs:*
 - 11: Geneseqn2003ds:*
 - 12: Geneseqn2004as:*
 - 13: Geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	768	100.0	768	2	AAT10780 Coding se
2	766.4	99.8	768	2	AAQ96101 IgG1 hing
3	744.6	97.0	3143	13	ADR66793 Human pro
4	744.6	97.0	3143	13	ADR65890 Human pro
5	738.2	96.1	3075	13	ADR08053 Full leng
6	701	91.3	3183	13	ADR08303 Full leng
7	696	90.6	1827	8	ABT32045 Concatame
8	696	90.6	1827	12	ADQ79907 Human tum
9	695.2	90.5	7427	12	ADJ57518 Human FVI
10	695.2	90.5	7494	12	ADJ57515 Human FVI
11	695	90.5	1134	8	ABT32048 Concatame
12	695	90.5	1134	12	ADQ79913 Human CTL
13	695	90.5	1314	8	ABT32047 Concatame
14	695	90.5	1314	12	ADQ79911 Human CD2
15	695	90.5	1980	8	ABT32046 Concatame
16	695	90.5	1980	12	ADQ79909 Human tum
17	694.8	90.5	1104	12	ADQ79909 Human tum
18	694.4	90.4	1335	8	ABT32041 Concatame
19	694.4	90.4	1335	12	ADQ79999 Human tum
20	694.4	90.4	1413	6	AAQ45752 Human C2B

21	694.4	90.4	1413	8	ABZ24016	Abz24016 Antibody
22	694.4	90.4	1428	2	AAT61241	Aat61241 Human ant
23	694.4	90.4	1431	2	AAT62513	Aat62513 Primatise
24	694.4	90.4	1431	2	AAT62510	Aat62510 Primatise
25	694.4	90.4	1431	2	AAV35485	AAv35485 Macaque p
26	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
27	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
28	694.4	90.4	1431	6	AAV35489	AAv35489 Macaque p
29	694.4	90.4	1431	10	AAV35489	AAv35489 Macaque p
30	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
31	694.4	90.4	1431	6	AAV35489	AAv35489 Macaque p
32	694.4	90.4	1431	10	AAV35489	AAv35489 Macaque p
33	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
34	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
35	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
36	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
37	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
38	694.4	90.4	1431	2	AAV35489	AAv35489 Macaque p
39	693.8	90.3	1367	3	AAV35489	AAv35489 Macaque p
40	693.6	90.3	1173	6	AAV35489	AAv35489 Macaque p
41	693.6	90.3	1173	9	AAV35489	AAv35489 Macaque p
42	693.4	90.3	705	12	AAV35489	AAv35489 Macaque p
43	693.4	90.3	1473	8	AAV35489	AAv35489 Macaque p
44	693.4	90.3	1473	12	AAV35489	AAv35489 Macaque p
45	693.4	90.3	2040	12	AAV35489	AAv35489 Macaque p

ALIGNMENTS

RESULT 1

AAT10780
ID AAT10780 standard; DNA; 768 BP.

XX AAT10780;

DT 26-SEP-1996 (first entry)

XX Coding sequence for IgG1 hinge, CH2 and CH3 domains.

XX CD7; transmembrane domain; chimeric receptor; CD5; CD34; CH2; CH3; IgG1; human; CD4; HIV; proteinaceous alpha-helix; T cell; B cell; neutrophil; dendritic cell; therapy; mammal; infection; ss.

XX Homo sapiens.

XX WO9603883-A1.

XX 15-FEB-1996.

XX 26-JUL-1995; 95WO-US009468.

XX 02-AUG-1994; 94US-00284391.

XX 24-FEB-1995; 95US-00394388.

XX (GEO) GEN HOSPITAL CORP.

XX Seed B, Banapour B, Romeo C, Kolanus W;

XX WPI; 1996-129034/13.

XX P-PSDB; AAR89441.

XX Membrane-bound chimeric receptor comprising extracellular portion including CD4 fragment - cells expressing receptor can be used for treatment of HIV infection.

XX Claim 3; Fig 25; 134pp; English.

XX This sequence represents the coding sequence for the human IgG1 hinge, CH2 and CH3 domains. This sequence is included in the membrane bound proteinaceous chimeric receptor of the invention. Alternatively the transmembrane region of the chimeric receptor contains a portion of the CD7, CD5 or CD34 transmembrane domains. The extracellular portion of the

CC chimeric receptor contains a fragment of CD4 (amino acids 1-394 or 1-200
CC of the CD4 sequence) which specifically recognises and binds HIV-infected
CC cells, but does not mediate HIV infection. The extracellular domain of
CC the receptor is separated from the cell membrane by 48 or 72 angstroms,
CC or by one or more proteinaceous alpha-helices. The cells expressing the
CC receptor are preferably T cells, B cells, neutrophils, or dendritic
CC cells. The therapeutic cells expressing the chimeric receptor are
CC administered to a mammal to treat HIV infection
XX
SQ Sequence 768 BP; 186 A; 250 C; 213 G; 119 T; 0 U; 0 Other;

Query Match 100.0%; Score 768; DB 2; Length 768;
Best Local Similarity 100.0%; Pred. No. 5.5e-153;
Matches 768; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCTAGCAGAGCCCAATCTTGTGACAAACTCACATGCCACCGTGCACGACCTGA 60
Db 1 GCTAGCAGAGCCCAATCTTGTGACAAACTCACATGCCACCGTGCACGACCTGA 60
QY 61 ACTCTGGGGGACCGTCAAGTCTTCTTCTTCCCAAAACCCCAAGGACACCTCATGAT 120
Db 61 ACTCTGGGGGACCGTCAAGTCTTCTTCTTCCCAAAACCCCAAGGACACCTCATGAT 120
QY 121 CTCCCGAGCCCTGAGGTACATGCTGTGTGTGGACGTGAGCCAGAAAGACCTGAGGT 180
Db 121 CTCCCGAGCCCTGAGGTACATGCTGTGTGTGGACGTGAGCCAGAAAGACCTGAGGT 180
QY 181 CAAAGTTCAACTGTTAGTGGACGGCTGGAGGTGCATATGCTCAAGACAAAGCCGGGA 240
Db 181 CAAAGTTCAACTGTTAGTGGACGGCTGGAGGTGCATATGCTCAAGACAAAGCCGGGA 240
QY 241 GGAGCAGTACAACAGCAGTACCGGTGTGCTCCTCAGCGTCTGCACACGAGACTG 300
Db 241 GGAGCAGTACAACAGCAGTACCGGTGTGCTCCTCAGCGTCTGCACACGAGACTG 300
QY 301 GCTGATGCAAGGAGTACAAGTGAAGTCTTCCAAAGGCTCCAGAGCCCAATGCA 360
Db 301 GCTGATGCAAGGAGTACAAGTGAAGTCTTCCAAAGGCTCCAGAGCCCAATGCA 360
QY 361 GAAACCATCTTCCAAAGCCAAAGGCGAGCCCGGAGACCAAGGACCCCTGAGGT 420
Db 361 GAAACCATCTTCCAAAGCCAAAGGCGAGCCCGGAGACCAAGGACCCCTGAGGT 420
QY 421 ATCCCGGATGAGTCAACCAAGAACCAAGTCAAGCTGCTGCTGCTCAAGAGCTTCTA 480
Db 421 ATCCCGGATGAGTCAACCAAGAACCAAGTCAAGCTGCTGCTGCTCAAGAGCTTCTA 480
QY 481 TCCGACGACATCGCGTGGAGTGGAGAGCAATGGGACCGGAGAACCACTACAAGAC 540
Db 481 TCCGACGACATCGCGTGGAGTGGAGAGCAATGGGACCGGAGAACCACTACAAGAC 540
QY 541 CACGCTCCCGTGTGGAATCCGACCGGCTCCTTCTTCTTACAGCAAGCTCACCGTGA 600
Db 541 CACGCTCCCGTGTGGAATCCGACCGGCTCCTTCTTCTTACAGCAAGCTCACCGTGA 600
QY 601 CAAAGCAGGTGGCAGCAGGGAAAGTCTTCTCATGCTCCGCTGATGAGGCTCTGCA 660
Db 601 CAAAGCAGGTGGCAGCAGGGAAAGTCTTCTCATGCTCCGCTGATGAGGCTCTGCA 660
QY 661 CAACCACTACACGAGAGAGCTCTCCCTGTCTCGGGGCTGCAACTGGACGAGACCTG 720
Db 661 CAACCACTACACGAGAGAGCTCTCCCTGTCTCGGGGCTGCAACTGGACGAGACCTG 720
QY 721 TGCTGAGGCCAGGAGCGGGAGCTGAGCGGGCTCTGGACAGCGGATCC 768
Db 721 TGCTGAGGCCAGGAGCGGGAGCTGAGCGGGCTCTGGACAGCGGATCC 768

RESULT 2
ID AAQ96101
XX AAQ96101 standard; DNA; 768 BP.
AC AAQ96101;

XX 11-APR-1996 (first entry)
XX IgG1 hinge, CH2, CH3 domain-encoding DNA.
DE Chimeric receptor; CD4; T-cell receptor; HIV; cytolysis;
KW human immunodeficiency virus; adoptive immunotherapy; IgG1; ss.
XX Homo sapiens.
OS
XX WO9521528-A1.
XX 17-AUG-1995.
XX 12-JAN-1995; 95WO-US000454.
XX 14-FEB-1994; 94US-00195395.
PR 02-AUG-1994; 94US-00284391.
XX (GEO) GEN HOSPITAL CORP.
PA Seed B, Banapour B, Romeo C, Kolanus W;
XX WPI; 1995-292893/38.
DR P-PSDB; AAR78667.
XX Target cytolysis of HIV-infected cells - by chimeric CD4 receptor-bearing
PT cells.
XX Disclosure; Fig 25; 118pp; English.
XX A DNA sequence coding for the hinge, CH2 and CH3 domains of human IgG1
CC (AAR78667) is given in AAQ96101. It is used in the construction of a
CC chimeric receptor utilised in the targeted cytolysis of HIV-infected
CC cells. The chimeric receptor comprises the extracellular domain (pref.
CC amino acids 1-394 or 1-200) of CD4 linked via the IgG1 hinge, CH2 and CH3
CC domains to an intracellular portion, e.g. of T-cell receptor protein zeta
XX
SQ Sequence 768 BP; 186 A; 249 C; 214 G; 119 T; 0 U; 0 Other;

Query Match 99.8%; Score 766.4; DB 2; Length 768;
Best Local Similarity 99.9%; Pred. No. 1.2e-152;
Matches 767; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GCTAGCAGAGCCCAATCTTGTGACAAACTCACATGCCACCGTGCACGACCTGA 60
Db 1 GCTAGCAGAGCCCAATCTTGTGACAAACTCACATGCCACCGTGCACGACCTGA 60
QY 61 ACTCTGGGGGACCGTCAAGTCTTCTTCTTCCCAAAACCCCAAGGACACCTCATGAT 120
Db 61 ACTCTGGGGGACCGTCAAGTCTTCTTCTTCCCAAAACCCCAAGGACACCTCATGAT 120
QY 121 CTCCCGAGCCCTGAGGTACATGCTGTGTGGACGTGAGCCAGGACCCCTGAGGT 180
Db 121 CTCCCGAGCCCTGAGGTACATGCTGTGTGGACGTGAGCCAGGACCCCTGAGGT 180
QY 181 CAAAGTTCAACTGTTAGTGGACGGCTGGAGGTGCATATGCTCAAGACAAAGCCCGGGA 240
Db 181 CAAAGTTCAACTGTTAGTGGACGGCTGGAGGTGCATATGCTCAAGACAAAGCCCGGGA 240
QY 241 GGAGCAGTACAACAGCAGTACCGGTGTGCTCCTCAGCGTCTTGCACCGAGACTG 300
Db 241 GGAGCAGTACAACAGCAGTACCGGTGTGCTCCTCAGCGTCTTGCACCGAGACTG 300
QY 301 GCTGAATGGCAAGGAGTACAAGTGCAGAGTCTCCAAAGAGCCCTCCAGAGCCCATCGA 360
Db 301 GCTGAATGGCAAGGAGTACAAGTGCAGAGTCTCCAAAGAGAGCCCTCCAGAGCCCATCGA 360
QY 361 GAAACCATCTTCCAAAGCCAAAGGCGAGCCCGGAGACCAAGGTCAGCTGCTGCCCCC 420
Db 361 GAAACCATCTTCCAAAGCCAAAGGCGAGCCCGGAGACCAAGGTCAGCTGCTGCCCCC 420
QY 421 ATCCCGGATGAGTCAACCAAGAACCAAGTCAAGCTGCTGCTGCTCAAGAGCTTCTA 480

QY 664 CCACCTACACGAGAGAGCCCTCTCCCTCTCTCCGGGGCTGCAACTGGACGAGCCTGTGC 723
Db 1458 CCACCTACACGAGAGAGCCCTCTCCCTCTCTCCGGAGCTGCAACTGGAGGAGAGCTGTGC 1517
QY 724 TGAGGCCACGAGCGGGAGCTGGACGGGCTCTGGACGAC 762
Db 1518 GGAGGCGCAGGACGGGGAGCTGGACGGGCTGTGGACGAC 1556

RESULT 4
ADR65890
ID ADR65890 standard; DNA; 3143 BP.
XX AC
XX ADR65890;
XX 02-DEC-2004 (first entry)
XX Human prostatic carcinoma derived DNA SEQ ID 86 #1.
XX human; cytostatic; diagnosis; prostatic cancer;
KW differential expression analysis; ds.
XX
OS Homo sapiens.
XX
PN WO2004076614-A2.
XX
XX 10-SEP-2004.
XX 22-FEB-2004; 2004WO-DE000433.
XX 27-FEB-2003; 2003DE-01009985.
PR 14-MAY-2003; 2003DE-01022134.
XX
XX (HINZ/) HINZMANN B.
PA (DAHL/) DAHL E.
PA (ROSE/) ROSENTHAL A.
PA (HERM/) HERMANN K.
PA (PILA/) PILARSKY C.

XX Hinzmann B, Dahl E, Rosenthal A, Hermann K, Pilarsky C, Specht T;
PI Schmitt A, Beckmann G, Bruemendorf T, Kinnemann H, Roepcke S;
PI Xinzhang L, Staub E;
XX WPI; 2004-653386/63.
XX
XX New nucleic acids, and encoded proteins, from prostatic cancer tissue,
PT useful for diagnosis, treatment and in screening for specific binding
PT agents.
XX
PS Claim 1; Page 294; 1607pp; German.

XX This invention describes novel cytostatic polynucleotide and polypeptide
CC sequences which can be used in a method for diagnosing prostatic cancer
CC or the risk of developing prostatic cancer. Diagnosis is based on
CC determining over transcription or over expression of the sequences in
CC prostatic tissue. Screening for inhibitors of the sequences or detection
CC substances involves a binding assay, any compounds that bind are
CC selected, optionally after deconvolution of mixtures. Detection of a
CC predetermined minimum level of the reporter indicates the presence of
CC tumour cells. Inhibitors can be chosen from antisense oligonucleotides,
CC short-interfering RNA or ribozymes; an organic molecule of molecular
CC weight below 5000, preferably 300, that binds to the polypeptide; an
CC aptamer against the polypeptide; a (monoclonal) antibody (Ab) against the
CC (monoclonal) antibody directed against Ab or any of the above derivatised
CC with a reporter group, cell toxin, immunostimulatory molecules and/or
CC radioisotope. The polynucleotides are identified in human prostatic
CC cancer by differential expression analysis, using DNA microarrays,
CC between normal and tumorous tissues, with (over)expression being detected
CC by quantitative PCR. Analysis of prostatic cancer samples showed that
CC CD24 was upregulated in many of them. Sections of tissue, isolated from
CC prostatic cancer patients, or subjects at risk, were incubated

CC sequentially with anti-human CD4 murine monoclonal antibodies;
CC biotinylated second antibody; streptavidin-conjugated horseradish
CC peroxidase and then diaminobenzidine as colour former (brown). The
CC samples were counterstained with hemalum (blue). Malignant cells stained
CC strongly but non-malignant cells only weakly. In 15 of 63 samples of
CC adenocarcinoma, membrane and cytoplasmic staining was very strong, and
CC lymph node metastases were also stained. ADR65890-ADR66954 represent the
CC polynucleotide and polypeptide sequences used in the method of the
CC invention.

XX
SQ Sequence 3143 BP; 596 A; 993 C; 894 G; 560 T; 0 U; 0 Other;

Query Match 97.0%; Score 744.6; DB 13; Length 3143;
Best Local Similarity 98.8%; Pred. No. 5.9e-148;
Matches 750; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 4 AGCAGAGCCCAAAATCTTGTGACAAAACCTCACACATGCCCCACCGTGCACGACACCTGAACT 63
Db 798 AGTTGAGGCCCAAAATCTTGTGACAAAACCTCACACATGCCCCACCGTGCACGACACCTGAACT 857
QY 64 CCTGGGGGAGCCGTCAGTCTTCTTCCCCCAAAACCCCAAGGACACCTCATGATCTC 123
Db 858 CCTGGGGGAGCCGTCAGTCTTCTTCCCCCAAAACCCCAAGGACACCTCATGATCTC 917
QY 124 CCGGACCCCTGAGGTCAATGCGTGGTGGAGCTGAGCCACCAAGACCTCTGAGGTCAA 183
Db 918 CCGGACCCCTGAGGTCAATGCGTGGTGGAGCTGAGCCACCAAGACCTCTGAGGTCAA 977
QY 184 GTTCAACTGGTACGTCGACGCGTGGAGGTGCATAATATGCCAAGACCAAGCCCGGGAGGA 243
Db 978 GTTCAACTGGTACGTCGACGCGTGGAGGTGCATAATATGCCAAGACCAAGCCCGGGAGGA 1037
QY 244 GCAGTACAAACAGCAGTACCGGGTGGTCAGGCTCTTACCGTCTGACACGAGGATGGCT 303
Db 1038 GCAGTACAAACAGCAGTACCGGGTGGTCAGGCTCTTACCGTCTGACACGAGGATGGCT 1097
QY 304 GAATGGCAAGGAGTACAGTGCMAAGTCTCCAAAGAGCCCTCCAGCGCCCATCGAGAA 363
Db 1098 GAATGGCAAGGAGTACAGTGCMAAGTCTCCAAAGAGCCCTCCAGCGCCCATCGAGAA 1157
QY 364 AACCATCTCCAAAGCCAAAGGGGAGCCCGGAGAGACCAAGGTGTACACCGTGCCTCCATC 423
Db 1158 AACCATCTCCAAAGCCAAAGGGGAGCCCGGAGAGACCAAGGTGTACACCGTGCCTCCATC 1217
QY 424 CCGGATGAGTGCACCAAGAACCCAGTCAAGCTGACCTGACCTGCTGCTCAAGGCTTCTATCC 483
Db 1218 CCGGATGAGTGCACCAAGAACCCAGTCAAGCTGACCTGCTGCTCAAGGCTTCTATCC 1277
QY 484 CAGCGACATCGCGTGGAGTGGAGAGCAATGGGAGCGCGGAGAGAACAACTACAAGACCAC 543
Db 1278 CAGCGACATCGCGTGGAGTGGAGAGCAATGGGAGCGCGGAGAGAACAACTACAAGACCAC 1337
QY 544 GCCTCCCGTGTGGACTCCGACGGCTCTTCTTCTTCTTCTACAGCAAGTCCACCGTGGACAA 603
Db 1338 GCCTCCCGTGTGGACTCCGACGGCTCTTCTTCTTCTTCTACAGCAAGTCCACCGTGGACAA 1397
QY 604 GAGCAGGTGGACGAGGGGAAAGTCTTCTCATGCTCCGCTGATGATGAGGCTCTGCACAA 663
Db 1398 GAGCAGGTGGACGAGGGGAAAGTCTTCTCATGCTCCGCTGATGATGAGGCTCTGCACAA 1457
QY 664 CCACCTACACGAGAGAGCTCTCCCTGTCTCCGGGGCTGCAACTGGACGAGACCTGTGC 723
Db 1458 CCACCTACACGAGAGAGCTCTCCCTGTCTCCGGGGCTGCAACTGGACGAGAGCTGTGC 1517

RESULT 5
ADR08053
ID ADR08053 standard; cDNA; 3075 BP.
XX

AC ADR08053;
 XX
 DT 04-NOV-2004 (first entry)
 XX
 DE Full length human cDNA useful for treating neurological disease Seq 1559.
 XX
 KW gene; ss; human; oligo-capping method; diagnostic marker; gene therapy;
 KW osteoporosis; neurological disease; Alzheimer's disease;
 KW Parkinson's disease; dementia; short memory; cancer;
 KW sense or motor function; emotional reaction; fear response; panic;
 KW osteopathic; neuroprotective; nootropic; antiparkinsonian; cytosstatic;
 KW tranquiliser.
 XX
 OS Homo sapiens.
 XX
 PN EP1447413-A2.
 XX
 PD 18-AUG-2004.
 XX
 PF 12-FEB-2004; 2004EP-00003145.
 XX
 PR 14-FEB-2003; 2003JP-00102207.
 PR 09-MAY-2003; 2003JP-00131452.
 XX
 PA (REAS-) RES ASSOC BIOTECHNOLOGY.
 XX
 PI Isogai T, Yamamoto J, Nishikawa T, Isono Y, Sugiyama T, Otsuki T;
 PI Wakamatsu A, Ishii S, Nagai K, Irie R;
 XX
 DR WPI: 2004-583265/57.
 DR P-PSDB; ADRI0009.
 XX
 PT New 1995 cDNA, useful for treating osteoporosis, neurological diseases,
 PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.
 XX
 PS Claim 1; SEQ ID NO 1559; 2686pp; English.
 XX
 CC This invention relates to novel, isolated full length human cDNA
 CC molecules and the encoded proteins thereof. Specifically, it refers to
 CC cDNA clones obtained by an oligo-capping method, where none of these
 CC clones are identical to any known human mRNAs. The present invention
 CC describes an immunoassay to identify agonists and antagonists, as well as
 CC antibodies, antisense molecules and siRNAs that can all be used to bind
 CC to and modulate expression of the cDNA molecules. As such, these
 CC molecules are useful for diagnostic markers or therapeutic targets for
 CC the various diseases or morbid states. In particular, they are useful in
 CC gene therapy for treating osteoporosis, neurological disease, Alzheimer's
 CC disease, Parkinson's disease, dementia, short memory and various cancers,
 CC as well as for maintaining equilibrium of sense or motor function, and
 CC for treating emotional reaction, fear response and panic. Accordingly,
 CC they exhibit osteopathic, neuroprotective, nootropic, antiparkinsonian,
 CC cytosstatic and tranquiliser activities. This polynucleotide is a full
 CC length human cDNA sequence of the invention. NOTE: This sequence is not
 CC given in the sequence listing of the specification but can be obtained on
 CC CD-ROM from the European Patent Office, Vienna Sub-office.
 XX
 SQ Sequence 3075 BP; 666 A; 972 C; 887 G; 550 T; 0 U; 0 Other;
 Query Match 96.1%; Score 738.2; DB 13; Length 3075;
 Best Local Similarity 98.3%; Mismatches 13; Indels 0; Gaps 0;
 Matches 746; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 QY 4 AGCAGAGCCCAATCTTGTGACAAAACCTACACATGCCACCGTGCCAGACCTGAACCT 63
 DB 748 AGTTGAGCCCAATCTTGTGACAAAACCTACACATGCCACCGTGCCAGACCTGAACCT 807
 QY 64 CTGGGGGAGCCGTGAGTCTTCTTCTTCCCTCCCAAAACCCAAAGGACACCTCATGATCTC 123
 DB 808 CTGGGGGAGCCGTGAGTCTTCTTCTTCCCTCCCAAAACCCAAAGGACACCTCATGATCTC 867
 QY 124 CCGGACCCCTGAGTACATGCGTGTGTGAGCTGAGCCAGACCCCTGAGGTCAA 183
 DB 868 CCGGACCCCTGAGTACATGCGTGTGTGAGCTGAGCCAGACCCCTGAGGTCAA 927

184 GTTCAACTGGTACGTGGACGGCGTGGAGGTGCATATATGCAAGACAAAGCCGCGGAGGA 243
 928 GTTCAACTGGTACGTGGACGGCGTGGAGGTGCATATATGCAAGACAAAGCCGCGGAGGA 987
 244 GCAGTACAAACAGCAGTACCGGGTGGTACGGTCTCCTCAGCGTCTTCCAGCAGCACTGGCT 303
 988 GCAGTACAAACAGCAGTACCGGGTGGTACGGTCTCCTCAGCGTCTTCCAGCAGCACTGGCT 1047
 304 GAATGCCAAGGAGTACAAAGTGCAGGTCTCCAAACAAAGCCCTCCAGCAGCCCAATCGAGAA 363
 1048 GAATGCCAAGGAGTACAAAGTGCAGGTCTCCAAACAAAGCCCTCCAGCAGCCCAATCGAGAA 1107
 364 AACCATCTCCAAAGCCAAAGGCGACGCCCGAGAACACACAGGTGTACACCTTGCCTCCCATC 423
 1108 AACCATCTCCAAAGCCAAAGGCGACGCCCGAGAACACACAGGTGTACACCTTGCCTCCCATC 1167
 424 CCGGATGAGCTGACCAAGAACAGGTGAGCTGAGCTGAGCTGCTGCTGCTCAAGGCTTCTATCC 483
 1168 CCGGAGGAGGATGACCAAGAACAGGTGAGCTGAGCTGAGCTGCTGCTGCTCAAGGCTTCTATCC 1227
 484 CAGCGACATCGCGCTGGAGTGGAGAGCAATGGGCGAGCCGAGAACAACTACAAAGACCAC 543
 1228 CAGCGACATCGCGCTGGAGTGGAGAGCAATGGGCGAGCCGAGAACAACTACAAAGACCAC 1287
 544 GCCTCCGCTGCTGAGTCCGACGGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 603
 1288 GCCTCCGCTGCTGAGTCCGACGGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1347
 604 GAGCAGTGGCAGCAGGAGGAGGAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 663
 1348 GAGCAGTGGCAGCAGGAGGAGGAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1407
 664 CCACTACACGACAGAGAGGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 723
 1408 CCACTACACGACAGAGAGGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1467
 724 TCAGGCCCAAGCAGGAGGAGTGGACGGGCTCTGGAGCAG 762
 1468 GGAGGCGCAGGAGGAGGAGTGGACGGGCTGTGGAGCAG 1506

RESULT 6
 ADR08303
 ID ADR08303 standard; cDNA; 3183 BP.
 XX
 AC ADR08303;
 XX
 DT 04-NOV-2004 (first entry)
 XX
 DE Full length human cDNA useful for treating neurological disease Seq 1809.
 XX
 KW gene; ss; human; oligo-capping method; diagnostic marker; gene therapy;
 KW osteoporosis; neurological disease; Alzheimer's disease;
 KW Parkinson's disease; dementia; short memory; cancer;
 KW sense or motor function; emotional reaction; fear response; panic;
 KW osteopathic; neuroprotective; nootropic; antiparkinsonian; cytosstatic;
 KW tranquiliser.
 XX
 OS Homo sapiens.
 XX
 PN EP1447413-A2.
 XX
 PD 18-AUG-2004.
 XX
 PF 12-FEB-2004; 2004EP-00003145.
 XX
 PR 14-FEB-2003; 2003JP-00102207.
 PR 09-MAY-2003; 2003JP-00131452.
 XX
 PA (REAS-) RES ASSOC BIOTECHNOLOGY.
 XX
 PI Isogai T, Yamamoto J, Nishikawa T, Isono Y, Sugiyama T, Otsuki T;

PI Wakamatsu A, Ishii S, Nagai K, Irie R;
XX WPI; 2004-583265/57.
DR P-PSDB; ADR10259.
XX
PT New 1995 cDNA, useful for treating osteoporosis, neurological diseases,
XX Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.
XX
PS Claim 1; SEQ ID NO 1809; 2686pp; English.
XX
CC This invention relates to novel, isolated full length human cDNA
CC molecules and the encoded proteins thereof. Specifically, it refers to
CC cDNA clones obtained by an oligo-capping method, where none of these
CC clones are identical to any known human mRNAs. The present invention
CC describes an immunoassay to identify agonists and antagonists, as well as
CC antibodies, antisense molecules and siRNAs that can all be used to bind
CC to and modulate expression of the cDNA molecules. As such, these
CC molecules are useful for diagnostic markers or therapeutic targets for
CC the various diseases or morbid states. In particular, they are useful in
CC gene therapy for treating osteoporosis, neurological disease, Alzheimer's
CC disease, Parkinson's disease, dementia, short memory and various cancers,
CC as well as for maintaining equilibrium of sense or motor function, and
CC for treating emotional reaction, fear response and panic. Accordingly,
CC they exhibit osteoprotective, neuroprotective, neurotropic, antiparkinsonian,
CC cytoskeletal and tranquilizer activities. This polynucleotide is a full
CC length human cDNA sequence of the invention. NOTE: This sequence is not
CC given in the sequence listing of the specification but can be obtained on
CC CD-ROM from the European Patent Office, Vienna Sub-office.
XX
SQ Sequence 3183 BP; 685 A; 1025 C; 889 G; 584 T; 0 U; 0 Other;
Query Match 91.3%; Score 701; DB 13; Length 3183;
Best Local Similarity 95.4%; Pred. No. 9.8e-139;
Matches 722; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
QY 6 CAGAGCCCAAAATCTTGTGACAAACTCACAATGCCACCGTCCCGAGCACTGAACTCC 65
DB 866 CAGAGCCCAAAATCTTGTGACACACCTCCGCCATGCCACGGTGCCGAGCACCTGAACTCC 925
QY 66 TGGGGGACCGTCAGTCTTCTTCTCCCGCCAAACCCAGGACACCTCATGATCTCC 125
DB 926 TGGGAGGACCGTCAGTCTTCTTCTTCTCCCGCCAAACCCAGGATACCTTATGATTTCC 985
QY 126 GGAACCTCTGAGGTACATCGTGTGTGAGAGCTGAGCCACGAAGACCTCTGAGGTCAAGT 185
DB 986 GGAACCTCTGAGGTACATCGTGTGTGTGAGAGCTGAGCCACGAAGACCTCTGAGGTCAAGT 1045
QY 186 TCAATCTGTTACGTGGACCGGTGAGGTGCAATATGCCAAGACAAAGCCCGGAGGAGC 245
DB 1046 TCAAGTGGTACGTGGACCGGTGAGGTGCAATATGCCAAGACAAAGCCCGGAGGAGC 1105
QY 246 AGTACACACGACGATACCGGTGTCAGGTCTCTACCGTCTCTGACACGAGGACTGGCTGA 305
DB 1106 AGTTCACACGACGATTCGGGTGTGTGTGAGGTCTCTACCGTCTCTGACACGAGGACTGGCTGA 1165
QY 306 ATGGCAAGGAGTACAAGTCAAGGTCTTCCAAACAAAGCCCTCCAGCCGCCATCGAGAAA 365
DB 1166 ACGGCAAGGAGTACAAGTCAAGGTCTTCCAAACAAAGCCCTCCAGCCGCCATCGAGAAA 1225
QY 366 CCATCTCCAAAGCAAGGACCGCCGAGAACCAAGGTGTACAGCTGTCACCTGCCCATCC 425
DB 1226 CCATCTCCAAAGCAAGGACAGCCCGGAGAACCAAGGTGTACAGCTGTCACCTGCCCATCC 1285
QY 426 GGCATGAGCTGACCAAGAACCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 485
DB 1286 GGCATGAGTACCAAGAACCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 1345
QY 486 GCGACATCGCGGTGAGGTGGAGAGCAATGGGAGCGGAGAGCAATCAAGACCAAGCAGC 545
DB 1346 GCGACATCGCGGTGAGGTGGAGAGCAGCGGAGCGGAGAGCAATCAAGACCAAGCAGC 1405
QY 546 CTCCCGTGTGAGTCCGAGCGGTCTTCTTCTCTCTACAGCAGCTCACCGTGGAGCAAGA 605

DB 1406 CTCCATGCTGGACTCCGACGGCTCTTCTTCTCTACGCAAGCTCACCGTGGACAGA 1465
QY 606 GCAGGTGGCAGCAGGGGAACGTCCTTCTCATGCTCCGTGATGTCATGAGGCTCTGCACAC 665
DB 1466 GCAGGTGGCAGCAGGGGAACATCTTCTCATGCTCCGTGATGTCATGAGGCTCTGCACAC 1525
QY 666 ACTACACGCAAGAGAGCTCTTCTTCTCCGGGGTGCACAACTGGAGAGACCTGTGCTG 725
DB 1526 GCTTACGCAAGAGAGCTCTTCTTCTCCGGAGCTGCAACTGGAGAGAGCTGTGCGG 1585
QY 726 AGGCCCGAGGAGGAGCTGGACGGGCTCTGGAGAC 762
DB 1586 AGGCCCGAGGAGGAGCTGGACGGGCTGTGGAGAC 1622
RESULT 7
ID ABT32045
XX ABT32045 standard; DNA; 1827 BP.
AC ABT32045;
XX
DT 08-MAY-2003 (first entry)
XX Concatameric immunoadhesion human DNA sequence SEQ ID No 9.
DE Antinflammatory; antibacterial; immunosuppressive; antirheumatic;
XX Antiarthritic; immunomodulator; concatameric protein; soluble domain;
KW dimeric protein; inflammation; septicaemia; cytotoxicity;
KW rheumatoid arthritis; cachexia; inflammation; human; gene; ds.
XX
OS Homo sapiens.
XX
PN WO2003010202-A1.
XX
PD 06-FEB-2003.
XX
PF 26-JUL-2002; 2002WO-KR001427.
XX
PR 26-JUL-2001; 2001KR-00045028.
XX (MEDB-) MEDEXGEN CO LTD.
XX
PI Chung Y, Han J, Lee H, Choi E, Kim J;
XX WPI; 2003-229639/22.
DR P-PSDB; ABJ37102.
XX
PT New concatameric protein having two soluble domains, useful for
PT diagnosing and treating disorders associated with the dimeric protein or
PT its glycosylated form, such as inflammation, septicemia, rheumatoid
PT arthritis and cachexia.
XX
PS Claim 29; Page 135-139; 211pp; English.
XX
CC The invention relates to a novel concatameric protein comprising two
CC soluble domains, in which an N-terminus of a soluble domain of a
CC biologically active protein is linked to a C-terminus of an identical
CC soluble domain or a different soluble domain of a biologically active
CC protein. The methods and compositions of the present invention are useful
CC for the diagnosis and treatment of disorders associated with dimeric
CC protein or its glycosylated form, such as inflammation, septicemia,
CC cytotoxicity, rheumatoid arthritis, cachexia and other inflammation-
CC related diseases. This polynucleotide sequence represents the DNA
CC encoding a human concatameric protein of the invention
XX
SQ Sequence 1827 BP; 474 A; 524 C; 481 G; 348 T; 0 U; 0 Other;
Query Match 90.6%; Score 696; DB 8; Length 1827;
Best Local Similarity 100.0%; Pred. No. 1e-137;
Matches 696; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 AGCAGAGGCCAAATCTTGTGACAAAACCTCACATGCCCCACCGTCCCGAGCCTGAAC 63

CC soluble domain or a different soluble domain of a biologically active
CC protein. The methods and compositions of the present invention are useful
CC for the diagnosis and treatment of disorders associated with dimeric
CC protein or its glycosylated form, such as inflammation, septicemia,
CC cytotoxicity, rheumatoid arthritis, cachexia and other inflammation-
CC related diseases. This polynucleotide sequence represents the DNA
CC encoding a human concatameric protein of the invention
XX
SQ Sequence 1134 BP; 273 A; 352 C; 298 G; 211 T; 0 U; 0 Other;
Query Match 90.5%; Score 695; DB 8; Length 1134;
Best Local Similarity 100.0%; Pred. No. 1.6e-137;
Matches 695; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 GCAGAGCCCAATCTTGTGACAAAATCTACATGCCACCGTGCAGGACCTGAACTC 64
Db 433 GCAGAGCCCAATCTTGTGACAAAATCTACATGCCACCGTGCAGGACCTGAACTC 492
QY 65 CTGGGGGGACCGTCAAGTCTTCTTCCGCCCAAAACCAAGGACACCTCATGATCTCC 124
Db 493 CTGGGGGGACCGTCAAGTCTTCTTCCGCCCAAAACCAAGGACACCTCATGATCTCC 552
QY 125 CGGACCCCTGAGGTCAATGCTGCTGTGTGAGCTGAGCCAGAGACCTTGAGTCAAG 184
Db 553 CGGACCCCTGAGGTCAATGCTGCTGTGTGAGCTGAGCCAGAGACCTTGAGTCAAG 612
QY 185 TTCAACTGGTACGTGAGCGCGGTGGAGGTGCATATGCGCAAGACCAAGCGCGGAGGAG 244
Db 613 TTCAACTGGTACGTGAGCGCGGTGGAGGTGCATATGCGCAAGACCAAGCGCGGAGGAG 672
QY 245 CAGTACAAAGAGTACAAAGTGCAGCGTCTTCTTCCAGCAAGCGCTTCTGACAGGACTGGCTG 304
Db 673 CAGTACAAAGAGTACAAAGTGCAGCGTCTTCTTCCAGCAAGCGCTTCTGACAGGACTGGCTG 732
QY 305 AATGCAAGAGTACAAAGTGCAGCGTCTTCTTCCAGCAAGCGCTTCTGACAGGACTGGCTG 364
Db 733 AATGCAAGAGTACAAAGTGCAGCGTCTTCTTCCAGCAAGCGCTTCTGACAGGACTGGCTG 792
QY 365 ACCATCTCCAAAGCCAAAGGGGAGCCCGGAGAACCAAGGAGTGTACACCTGCCCCCATCC 424
Db 793 ACCATCTCCAAAGCCAAAGGGGAGCCCGGAGAACCAAGGAGTGTACACCTGCCCCCATCC 852
QY 425 CGGATGAGTGCACCAAGAACCCAGGTGAGCTGAGCTGAGCTGCTGCTCAAGGCTTCTATCC 484
Db 853 CGGATGAGTGCACCAAGAACCCAGGTGAGCTGAGCTGAGCTGCTGCTCAAGGCTTCTATCC 912
QY 485 AGCGACATCCCGTGGAGTGGGAGAGCAATGGCGAGCGCGGAGAACCAACTACAAGACCCAG 544
Db 913 AGCGACATCCCGTGGAGTGGGAGAGCAATGGCGAGCGCGGAGAACCAACTACAAGACCCAG 972
QY 545 CCTCCCGTGTGGACTCCGACCGCTCTTCTTCTCTTACAGCAAGCTCACCGTGGACAAAG 604
Db 973 CCTCCCGTGTGGACTCCGACCGCTCTTCTTCTCTTACAGCAAGCTCACCGTGGACAAAG 1032
QY 605 AGCAGGTGGCAGCAGGGAGAGTCTTCTCATGCTCGGTGATCATGAGCTCTGACAAAC 664
Db 1033 AGCAGGTGGCAGCAGGGAGAGTCTTCTCATGCTCGGTGATCATGAGCTCTGACAAAC 1092
QY 665 CACTACACGCAAGAGCTCTTCCCTGTCTCCGG 699
Db 1093 CACTACACGCAAGAGCTCTTCCCTGTCTCCGG 1127
RESULT 12
ADQ79913
ID ADQ79913 standard; DNA; 1134 BP.
XX
AC ADQ79913;
XX
DT 09-SEP-2004 (first entry)
XX
DE Human CTLA4/Ig construct DNA.
XX

Human; tumour necrosis factor receptor; TNFR1; TNFR2; CTLA4; CD2; IgG;
KW immunoglobulin; ds; concatameric fused dimer protein; immunoadhesin;
KW FC fragment; hinge.
XX
OS Homo sapiens.
OS Synthetic.
XX
FN KR2004009997-A.
PN 31-JAN-2004.
PD 26-JUL-2002; 2002KR-00045921.
PF 26-JUL-2002; 2002KR-00045921.
PR 26-JUL-2002; 2002KR-00045921.
PX (MEDB-) MEDXGEN INC.
PY Choi EY, Han JU, Jung YH, Kim JM, Lee HJ;
XX WPI; 2004-458871/43.
XX P-PSDB; ADQ79914.
DR Concatameric immunoadhesin.
XX
PS Example 2; SEQ ID NO 15; 129pp; Korean.
XX
CC The invention relates to a concatameric fused dimer protein and
CC glycosylation modification protein providing concatameric immunoadhesin
CC with improved efficacy and stability. The concatameric protein is
CC characteristically formed by binding C-terminal of one biologically
CC active protein with N-terminal of same or different biologically active
CC protein, e.g. tumour necrosis factor receptors (TNFR1 and TNFR2), CD2 and
CC CTLA4. Two monomer proteins which are formed by fusing the extracellular
CC region of a protein participating in the same immune reaction to an
CC immunoglobulin Fc fragment, bound together at a hinge region by
CC disulphide bond to give the concatameric fused dimer protein, wherein the
CC immunoglobulin is IgG. The present sequence encodes a monomeric or
CC dimeric IgG fusion protein (or a dimeric fusion protein containing
CC engineered N-glycosylation sites, designated "mg").
XX
SQ Sequence 1134 BP; 273 A; 352 C; 298 G; 211 T; 0 U; 0 Other;
Query Match 90.5%; Score 695; DB 12; Length 1134;
Best Local Similarity 100.0%; Pred. No. 1.6e-137;
Matches 695; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 GCAGAGCCCAATCTTGTGACAAAATCTACATGCCACCGTGCAGGACCTGAACTC 64
Db 433 GCAGAGCCCAATCTTGTGACAAAATCTACATGCCACCGTGCAGGACCTGAACTC 492
QY 65 CTGGGGGGACCGTCAAGTCTTCTTCCGCCCAAAACCAAGGACACCTCATGATCTCC 124
Db 493 CTGGGGGGACCGTCAAGTCTTCTTCCGCCCAAAACCAAGGACACCTCATGATCTCC 552
QY 125 CGGACCCCTGAGGTCAATGCTGCTGTGTGAGCTGAGCCAGAGACCTTGAGTCAAG 184
Db 553 CGGACCCCTGAGGTCAATGCTGCTGTGTGAGCTGAGCCAGAGACCTTGAGTCAAG 612
QY 185 TTCAACTGGTACGTGAGCGCGGTGGAGGTGCATATGCGCAAGACCAAGCGCGGAGGAG 244
Db 613 TTCAACTGGTACGTGAGCGCGGTGGAGGTGCATATGCGCAAGACCAAGCGCGGAGGAG 672
QY 245 CAGTACAAAGAGTACAAAGTGCAGCGTCTTCTTCCAGCAAGCGCTTCTGACAGGACTGGCTG 304
Db 673 CAGTACAAAGAGTACAAAGTGCAGCGTCTTCTTCCAGCAAGCGCTTCTGACAGGACTGGCTG 732
QY 305 AATGCAAGAGTACAAAGTGCAGCGTCTTCTTCCAGCAAGCGCTTCTGACAGGACTGGCTG 364
Db 733 AATGCAAGAGTACAAAGTGCAGCGTCTTCTTCCAGCAAGCGCTTCTGACAGGACTGGCTG 792
QY 365 ACCATCTCCAAAGCCAAAGGGGAGCCCGGAGAACCAAGGAGTGTACACCTGCCCCCATCC 424
Db 793 ACCATCTCCAAAGCCAAAGGGGAGCCCGGAGAACCAAGGAGTGTACACCTGCCCCCATCC 852

Qy	65	CTGGGGGACCGTCAGTCTTCTCTTCCGCCAAACCCCAAGGACACCCCTCATGTCTCC	124
Db	1339	CTGGGGGACCGTCAGTCTTCTCTTCCGCCAAACCCCAAGGACACCCCTCATGTCTCC	1398
Qy	125	CGGACCCCTGAGGTCAATGCGTGTGGTGGAGCGTGGAGCGGAGACCCCTGAGGTCAAG	184
Db	1399	CGGACCCCTGAGGTCAATGCGTGTGGTGGAGCGTGGAGCGGAGACCCCTGAGGTCAAG	1458
Qy	185	TTCAACTGTGACGTGGACCGGTGGAGGTGCAATATGCCAAGACAAAGCCGGGGAGGAG	244
Db	1459	TTCAACTGTGACGTGGACCGGTGGAGGTGCAATATGCCAAGACAAAGCCGGGGAGGAG	1518
Qy	245	CAGTACAACAGCAGTACCGGTGGTCAAGCTCTCCAGCGTCTGACCGAGGACTGGCTG	304
Db	1519	CAGTACAACAGCAGTACCGGTGGTCAAGCTCTCCAGCGTCTGACCGAGGACTGGCTG	1578
Qy	305	AATGGCAAGGAGTACAAGTGCAGGTCTCCAAACAAAGCCCTCCAGCCGCCCATCGAGAA	364
Db	1579	AATGGCAAGGAGTACAAGTGCAGGTCTCCAAACAAAGCCCTCCAGCCGCCCATCGAGAA	1638
Qy	365	ACCATCTCAAAGCCAAAGGCGAGCCCGGAGAACCAAGGTGTACACCTGCCCCCATCC	424
Db	1639	ACCATCTCAAAGCCAAAGGCGAGCCCGGAGAACCAAGGTGTACACCTGCCCCCATCC	1698
Qy	425	CGGGATGAGCTGACCAAGAACCAAGTCAAGCTGACCTGACCTGCTCAAGGCTTCTATCC	484
Db	1699	CGGGATGAGCTGACCAAGAACCAAGTCAAGCTGACCTGACCTGCTCAAGGCTTCTATCC	1758
Qy	485	AGCGACATCGCGTGGAGTGGAGAGCAATGGGAGCGCGGAGAACAACTACAAGACCAAG	544
Db	1759	AGCGACATCGCGTGGAGTGGAGAGCAATGGGAGCGCGGAGAACAACTACAAGACCAAG	1818
Qy	545	CCTCCCGTGTGGACTCCGACGGCTCCTTCTTCTTACAGCAAGCTCACCGTGGACAAG	604
Db	1819	CCTCCCGTGTGGACTCCGACGGCTCCTTCTTCTTACAGCAAGCTCACCGTGGACAAG	1878
Qy	605	AGCAGGTGCGAGCGGGGAAAGTCTTCTCATGCTCGGTGATGATGAGGCTCTGCACAAC	664
Db	1879	AGCAGGTGCGAGCGGGGAAAGTCTTCTCATGCTCGGTGATGATGAGGCTCTGCACAAC	1938
Qy	665	CACTACGCGAGAGAGCCTCTCCCTGTCTCCGGG	699
Db	1939	CACTACGCGAGAGAGCCTCTCCCTGTCTCCGGG	1973

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Job time : 478 secs

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